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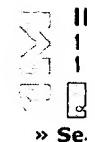
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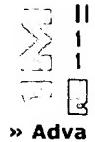


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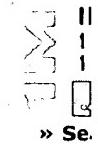
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Relevance scale

**1 Reputation networks: Propagation of trust and distrust**

R. Guha, Ravi Kumar, Prabhakar Raghavan, Andrew Tomkins

May 2004 **Proceedings of the 13th conference on World Wide Web**Full text available: [pdf\(201.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A (directed) network of people connected by ratings or trust scores, and a model for propagating those trust scores, is a fundamental building block in many of today's most successful e-commerce and recommendation systems. We develop a framework of trust propagation schemes, each of which may be appropriate in certain circumstances, and evaluate the schemes on a large trust network consisting of 800K trust scores expressed among 130K people. We show that a small number of expressed trusts/distrusts ...

**Keywords:** distrust, trust propagation, web of trust

**2 Smoothed analysis of algorithms: Why the simplex algorithm usually takes polynomial time**

Daniel A. Spielman, Shang-Hua Teng

May 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 3Full text available: [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce the *smoothed analysis of algorithms*, which continuously interpolates between the worst-case and average-case analyses of algorithms. In smoothed analysis, we measure the maximum over inputs of the expected performance of an algorithm under small random perturbations of that input. We measure this performance in terms of both the input size and the magnitude of the perturbations. We show that the simplex algorithm has *smoothed complexity* polynomial in the input size and ...

**Keywords:** Simplex method, complexity, perturbation, smoothed analysis

**3 Datapath and control for quantum wires**

Nemanja Isailovic, Mark Whitney, Yatish Patel, John Kubiatowicz, Dean Copsey, Frederic T. Chong, Isaac L. Chuang, Mark Oskin

March 2004 **ACM Transactions on Architecture and Code Optimization (TACO)**, Volume 1 Issue 1Full text available: [pdf\(476.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

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Relevance scale

**1 Text categorization: A maximal figure-of-merit learning approach to text categorization**

Sheng Gao, Wen Wu, Chin-Hui Lee, Tat-Seng Chua

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available:  [pdf\(334.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A novel maximal figure-of-merit (MFoM) learning approach to text categorization is proposed. Different from the conventional techniques, the proposed MFoM method attempts to integrate any performance metric of interest (e.g. accuracy, recall, precision, or F1 measure) into the design of any classifier. The corresponding classifier parameters are learned by optimizing an overall objective function of interest. To solve this highly nonlinear optimization problem, we use a generalized probabilistic ...

**Keywords:** decision tree, generalized probabilistic descent method, latent semantic indexing, maximal figure-of-merit, support vector machines, text categorization

**2 Computational Methods for Intelligent Information Access**

Michael W. Berry, Susan T. Dumais, Todd A. Letsche

December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available:  [pdf\(375.60 KB\)](#)  [html\(3.13 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

**3 A semidiscrete matrix decomposition for latent semantic indexing information retrieval**

Tamara G. Kolda, Dianne P. O'Leary

October 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 4

Full text available:  [pdf\(201.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The vast amount of textual information available today is useless unless it can be effectively and efficiently searched. The goal in information retrieval is to find documents that are relevant to a given user query. We can represent a document collection by a matrix whose (i, j) entry is nonzero only if the ith term appears in the jth document; thus each document corresponds to a column vector. The query is also represented as a column v ...


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Relevance scale



### [1 Bead: explorations in information visualization](#)

Matthew Chalmers, Paul Chitson

 June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**

 Full text available: [pdf\(822.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe work on the visualization of bibliographic data and, to aid in this task, the application of numerical techniques for multidimensional scaling. Many areas of scientific research involve complex multivariate data. One example of this is Information Retrieval. Document comparisons may be done using a large number of variables. Such conditions do not favour the more well-known methods of visualization and graphical analysis, as it is rarely feasible to map each variable ...



### [2 Kernel independent component analysis](#)

Francis R. Bach, Michael I. Jordan

 March 2003 **The Journal of Machine Learning Research**, Volume 3

 Full text available: [pdf\(561.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a class of algorithms for independent component analysis (ICA) which use contrast functions based on canonical correlations in a reproducing kernel Hilbert space. On the one hand, we show that our contrast functions are related to mutual information and have desirable mathematical properties as measures of statistical dependence. On the other hand, building on recent developments in kernel methods, we show that these criteria and their derivatives can be computed efficiently. Minimizi ...



**Keywords:** Stiefel manifold, blind source separation, canonical correlations, gram matrices, incomplete Cholesky decomposition, independent component analysis, integral equations, kernel methods, mutual information, semiparametric models



### [3 Research track: Towards systematic design of distance functions for data mining applications](#)

Charu C. Aggarwal

 August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

 Full text available: [pdf\(215.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distance function computation is a key subtask in many data mining algorithms and

applications. The most effective form of the distance function can only be expressed in the context of a particular data domain. It is also often a challenging and non-trivial task to find the most effective form of the distance function. For example, in the text domain, distance function design has been considered such an important and complex issue that it has been the focus of intensive research over three decades ...

**Keywords:** data mining, distance functions, user interaction

#### **4 FastMap: a fast algorithm for indexing, data-mining and visualization of traditional and multimedia datasets**

Christos Faloutsos, King-Ip Lin

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A very promising idea for fast searching in traditional and multimedia databases is to map objects into points in  $k$ -d space, using  $k$  feature-extraction functions, provided by a domain expert [25]. Thus, we can subsequently use highly fine-tuned spatial access methods (SAMs), to answer several types of queries, including the 'Query By Example' type (which translates to a range query); the 'all pairs' query (which translates to a spatial join [8]); the nearest-neighbor or best-match ...

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